Work Order ID 107210 September-23-13 11:23:56 AM				*107210*							Page 1	_	
Item ID: Revision ID: Item Name:	D3049-1 Bearpaw			A	Accept	*N900	040	100)* s	etup Start Stop	IV	S1* S2*	
Start Date: Required Date Reference:	9/23/13	_	ty: 4.00 2ty: 4.00	*4* *4*		Cust Item I Customer:	D:				1.4	. 1/	
Approvals:	Process P	lan:	pp.	Date: <u>/3-09-23</u> Date:	Tooling: SPC (Y/N):		ate:		F	Run Star Stop	1/1	R1* R2*	·
Sequence ID/ Work Center I	i D	Operation Descript			Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	<u> </u>
Draw Nbr	R	evision Nbr											
D3049	R	ev A1	1										
*110 *110* Waterjet			Memo		0.00				4			JM13-09	ነ- 29
FLOW CNC Water	rjet		CUT BLA	NK AS PER FILE D3049-1_1	BLANK								
120 *120* HAAS 1 HAAS CNC vertice		HAAS CN	Memo	L MACHINING #1 بهجة. naterial for defects or damage	0.00 0.00				4	A P	МН	13/10/27	
HAAS CNC Vertic	cai macnine #1			as per Folio FA165 and Dwg		49-1							

0.00

0.00

4 8 /14 13/10/27

Quality Control

130

QC2- Inspect parts off machine FAI/FAIB

Memo

130

MODIL ODDER MONICONICONALICE LUDGATE		
NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE		
QA Closed:	Date:	
Work Order: DISPOSITION AGAINST DEPARTMENT,	/PROCESS	
Rework Skid-tube Crosstube Scrap Machining Small Fab Pro-	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root Description of work order update Initial Action Sign &		
Cause Date Step Qty or Non-conformance Chief Eng Description Date	Verification	QC Inspector
Doc/Data <		
FAULT CATEGORY		
Landing Gear General	_	1
Bending Bend Grain Ovalized Centre Not Concentric to O/S BOM/Route Hardware Over/Under Cracks Broken/Damaged Inspection Incomplete Part Incorrect Couch of Concentration of C	tolerance ct	Pressure/Forced Temperature/Cure Weld
Crushed/Crimped Burrs Instructions Incomplete/Unclear Part Lost/Mi Cuffs Contamination Maintenance Part Moved	<u> </u>	Wrong Stock Pulled
Heat Treat Countersink Mislabeled Positioned V Inspection Strip in Tube Cut Too Short Misread Power Loss/	_	Other
Ripples in Bend Drill Holes Offset Out of Calibration		

Out of Sequence

Outside Dimensions

Turning Sequence

Finish Folio

Wave/Twist in Tube

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 107210 *107210* Page 2 September-23-13 11:23:56 AM Accept Item ID: D3049-1 *N900040100* Setup Start Revision ID: Stop Item Name: Bearpaw Start Otv: 4.00 **Start Date:** 9/23/13 Cust Item ID: Required Date: 9/23/13 **Reg'd Oty:** 4.00 **Customer:** Reference: Run Start Process Pian: _____ Date: Tooling: Date: Approvals: Stop Date: SPC (Y/N): Date: Operation Tool # Plan Reject Reject Sequence ID/ Set Up/ Tool ID Accept Insp. Number Stamp Work Center ID Code Otv Otv **Description Run Hours** OC8- Inspect parts - second check 0.00 140 *140* 0.00 Memo **Ouality Control** Identify as per dwg & Stock Location: 0.00 170 Packaging *170* 0.00 Packaging Packaging 0.00 OC21- Final Inspection - Work Order Release 180

0.00

Memo

120

Quality Control

OC

/R113-10-650 MF 29

NCR:	⁄es	/ No				WORK ORDER NON-C	ON	IFORM	MANCE / UP	DATE			
											QA Closed:	Date:	
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part No				Scrap Machining Small Use-as-is Thermoforming Finish			Crosstube Small Fab Finishing Composite	Fab Prod. Eng. Coor. C					
Root					Descri	ption of work order update		nitial	Act	ion	Sign &		
Cause	- {	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector
Doc/Data		·				* -							
Equip/Tooling													
Operator													
Material			'										
Setup	П												
Other												· I	
Process				ļ									
Supplier													
Training	П												
Unapproved			<u> </u>							:	! 		
						F/	AUL	T CATE	GORY				
Landi	ng (Gear				General					_		_
·		Bending				Bend		Grain			Ovalized		Pressure/Forced
		Centre No	ot Concei	ntric to	o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct	Weld
		Crushed/	Crimped			Burrs		Instruct	ions Incomplete/U	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	nance		Part Moved		
		Heat Trea	at .			Countersink		Mislabe	eled		Positioned V	Vrong	_
		Inspectio	n Strip in	Tube		Cut Too Short		Misread	d		Power Loss/	Surge .	Other
		Ripples in	Bend			Drill Holes		Offset					
		Torque W	/aves in E	Extrusio	n [Drawing		Out of 0	Calibration				
,		Turning S	equence			Finish		Out of	Sequence				

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID:

107210

Parent Item:

D3049-1

Parent Item Name:

Bearpaw

Start Date: 9/23/13

Required Date: 9/23/13

Start Qty: 4.00

Required Qty: 4.00

Comments:													
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MUHMWB10 UHMW 1" Black		Purchased	No			120	sf	1,000.6282	3.4	13.6	Ae	13	139.28
•				<u>Location</u>		Loc Qty	Lo	e Code					
				MAT019		1000.628179		*					
				1212	278	9.62817947							
				1225	575	47.6							
				1232	229	53							
				1237	704	63.8							
				1239	949	6.96			<u></u>				
				1243	382	197.12							
				1247	758	17.52							•
				1251	137_	205			12	5137	\longrightarrow		
				m12	6748	400		,					

								•			DQA:	Date	e:	• ·
NCR: Ye	es / No				WORK ORDER NON-C	ONFO	RMA	NCE / UP	DATE		•			
											QA Closed:	Date	e:	
Work Orde	r.		<u></u>		DISPOSITION				AGAINS	T DE	PARTMENT	/PROCESS		
			•		Rework			id-tube	Crosstub	\vdash		Water Jet	Engineerin	~ }
Part N	0				Scrap	Th		chining orming	Small Fal Finishin	-	ł	d. Eng. Coor. re/Packaging	Quali Oth	· 🛏
NCR N	0	·			Use-as-is Work Order Update			rge Fab	Composite	-⊢	Rec/Stol	Supplier		er
Root				Descri	ption of work order update	Initia	ıl I	Ac	tion		Sign &			*
Cause	Date	Step	Qty	•	or Non-conformance	Chief E	ng	Desc	ription		Date	Verification	QC Insp	ector
Doc/Data											•	·		
Equip/Tooling													**	
Operator		1					-							
Material							ļ							
Setup							Ì							
Other												1		
Process				i										
Supplier				<i>†</i>										
Training						1				•		*		
Unapproved														
					F	AULT CA	ATEGO	RY						
Landin	ng Gear			_	General						3	Г	- .	
	Bending			<u> </u>	Bend	Gra				_	Ovalized	-	Pressure/For	
	Centre N	ot Conce	ntric to	o/s	BOM/Route		dware			<u> </u>	Over/Under	- t	Temperature	e/Cure
	Cracks				Broken/Damaged			Incomplete		_	Part Incorre	-	Weld	
ļ	Crushed/	Crimped			Burrs			s Incomplete/	'Unclear	_	Part Lost/Mi	issing	Wrong Stock	Pulled
	Cuffs				Contamination	\vdash	intena				Part Moved			
<u> </u>	Heat Trea	at			Countersink	Mis	labeled				Positioned V	Vrong		
	Inspectio	n Strip in	Tube		Cut Too Short	Mis	read				Power Loss/	Surge	Other	

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order: /07210	<u>ク</u>
Description: Bearpaw	Part Number: D3049-1	
Inspection Dwg: D3049 Rev: A1	Page 1 of	<u>-</u> -

FIRST ARTICLE INSPECTION CHECKLIST

X First	Article	Prototype
---------	---------	-----------

	pection Sheet ving Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Α	Ø0.260	+0.005/-0.000	.760	V		M4-04	Caliper
В	0.93	+/-0.030	. 9308	<i>J</i>		1	1
С	0.40	+0.030/-0.000	-412	J			
D	2.00	+/-0.030	1.997	~			
Е	10.250	+/-0.010	10.251	J		Chaod	Caliper 12"
F	4.540	+/-0.030	4,540	J		MH-04	Caliper 12"
G	5.88	+/-0.030	5.88	J		1	1
Н	0.38	+/-0.030	,381				
ł	11.50	+/-0.030	11.500	5		Chc-02	Calliper
J	0.07 x 45°	+0.030/-0.010	₩ ×45°			NH -04	Callyer
K	0.44 - 0.47	+/-0.000	-462	>		đ	1
L	R0.25	+/-0.030	, LS	1		gauge	_
М	0.38	+/-0.010	-388	√		M4-04	Calipen
N	0.95	+0.030/-0.010	.963	✓		\	1
0	0.69	+/-0.030	. 700	√			
Р	0.20	+/-0.030	.192	1			
Q	23.00	+/-0.030	23.00			MH-07	Fape
R	0.25 x 45°	+/-0.030	. 22 ×45°	J		M4-04	Tape Caliper

Measured by: 11H	Audited by:	Prototype Approval:	N/A
Date: (3/10/27	Date: 13-10-27	Date:	N/A

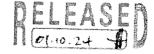
Rev	Date	Change	Revised by	Approved
Α	03.09.22	New Issue P/O D135-692-011	KJ/RF 1.A	
В	08.05.06	Dimension I revised	KJ/DD of	X

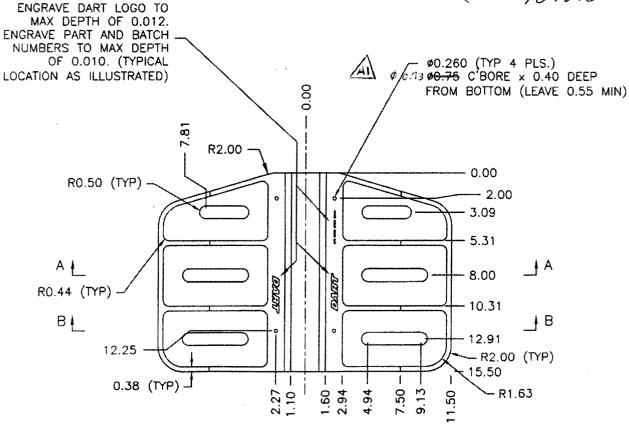




DESIGN RF	ORAWN BY	DART AERO HAWKESBURY, OI	
CHECKED	APPROVED #	DRAWING NO. D3049	REV. A SHEET 1 OF 2
DATE		TITLE	SCALE
01 10.18		BEARPAW	1:7
Α	01.10.18	NEW ISSUE	

TF 03.01.13 \$ 0.93 W45 \$ 0.75





D3049-1 BEARPAW

NOTES:

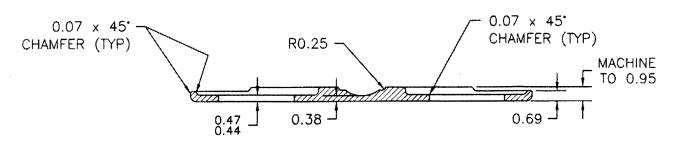
- 1) BEARPAW IS SYMMETRIC ABOUT CENTER LINE
 2) MATERIAL: UHMW BLACK PER SPEC CONTROL DRAWING D2689, 1.00" THICK (MACHINE TO 0.950)



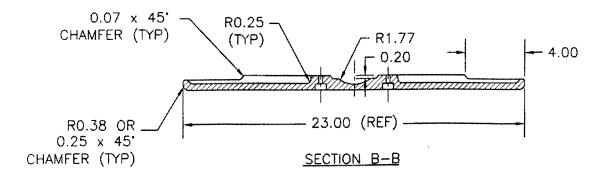
DESIGN RF	DRAWN BY	•	OSPACE LTD , ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.	REV. A
#	-4	D3049	SHEET 2 OF 2
DATE		TITLE	SCALE
01.10.18		BEARPAW	1:6



101210



SECTION A-A



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